LABETALOL

BRAND NAME  LABETALOL SXP, TRANDATE

DRUG CLASS  Beta-blocker, selective alpha1 blocker

AVAILABILITY  Labetalol SXP ampoule contains 50 mg/10 mL of labetalol hydrochloride. Also contains hydrochloric acid and sodium hydroxide.1 Trandate ampoule contains 100 mg/20 mL of labetalol hydrochloride. Also contains hydrochloric acid and sodium hydroxide.2 Available through the Special Access Scheme.

pH  3–4.53

PREPARATION  Not required

STABILITY  Labetalol SXP ampoule store below 25 °C. Protect from light.1 Trandate ampoule: store below 30 °C. Protect from light.2 Infusion solutions prepared with labetalol SXP are stable for 6 hours below 25 °C or 24 hours at 2 to 8 °C.1

ADMINISTRATION

IM injection  Not recommended

SC injection  Not recommended

IV injection  Inject the dose slowly over 2 minutes. Repeat after 10 to 20 minutes if required.1

IV infusion  Add 20 mL (100 mg) to 80 mL of a compatible fluid to make a concentration of 1 mg/mL.1,2 Starting rates range from 20 mg/hour to 120 mg/hour depending on the indication.1,2 May be infused undiluted in a syringe pump. Rates of 2 to 8 mg/min are used in acute management of stroke.4 Adjust the rate according to the blood pressure response.

COMPATIBILITY

Fluids  Glucose 5%,1,2 see SPECIAL NOTES, glucose in sodium chloride solutions,1,2 Hartmann’s,3 Plasma-Lyte 148 via Y-site,5 Ringer’s, sodium chloride 0.9%3 Y-site  Amikacin,3 aminophylline, amiodarone, ampicillin, atracurium, aztreonam, buprenorphine, calcium chloride, calcium gluconate,6 ceftazidime,3 cefotolozane-tazobactam,3 cíclosporina,6 dobutamine,6 dopamine,6 ephedrine sulfate,6 erythromycin,3 esmolol,3 fentanyl,3 gentamicin,3 glyceryl trinitrate,3 insulin (Novorapid),8 isavuconazole,3 lidocaine,5 linezolid,3 magnesium sulfate,3 metoclopramide,6 metronidazole,3 midazolam,3 morphine sulfate,3 nicardipine,3 noradrenaline (norepinephrine),3 pethidine,3 potassium chloride,3 ranitidine,3 sodium acetate,3 sodium nitroprusside,5 tobramycin,3 trimethoprim-sulfamethoxazole,3 suxamethonium,3 vancomycin,3 verapamil3

INCOMPATIBILITY

Fluids  Sodium bicarbonate1-3

Drugs  Albumin,8 aciclovir,8 azathioprine,8 benzylpenicillin,6 cefalotin,6 ceftazidime,3 cefotaxime,2 cefoxitin,3 cefaroline fosamil,1 ceftriaxone,1 dexamethasone,8 esomeprazole,8 foscarinet,8 fosfomycin,9 furosemide1,3, heparin sodium,1 hydrocortisone sodium succinate,6 ibuprofen,8 indometacin,9 insulin (Actrapid),8 ketorolac,9 micafungin,3 pipercillin-tazobactam (EDTA-free),8 sodium bicarbonate1, thiopental sodium8
SPECIAL NOTES

Continuous cardiac monitoring is required during IV infusion.¹
Half life is 4 hours, duration of action is 6 hours but can be longer; monitor the patient for at least 6 hours after stopping the infusion.¹,²
Monitor blood pressure and heart rate every 5 to 10 minutes when giving by IV injection. Maximum effect occurs within 5 minutes.¹,²
Patients should remain lying down during and for up to 3 hours after IV administration. Orthostatic hypotension is likely to occur if the patient is tilted upward or allowed to stand during this period.¹,²
For patients at risk of cerebral oedema, avoid glucose solutions if possible. Excessive glucose can exacerbate cerebral oedema and may worsen brain injury in stroke patients.¹⁰

REFERENCES